Installation manual
T4290, T4530, T4650
Selecta Control

487 05 44 61.00
EN

Safety instructions

This machine is only intended for drying water-washed garments.

Clothes that have been cleaned with chemicals/inflammable liquids, must NOT be dried in the machine.

Remove clothes from the tumble dryer as soon as they are dry.

This prevents them from becoming creased, and reduces the risk of spontaneous ignition.

The machine must not be used for drying foam rubber or foamlike materials.

The machine must not be used for drying floor mops*.

The machine must not be used by minors.

The machine must not be hosed down with water.

Mechanical, electrical and gas installations must only be carried out by authorised personnel.

If the machine has a fault, this must be reported as soon as possible to the person in charge. This is important for your own safety and for the safety of others.

Gas dryers only:

The machine is not to be installed in rooms containing cleaning machines with perchloroethylene, TRICHLOROETHYLENE or CHLOROFLUOROCONTAINING HYDROCARBONS as cleaning agents.

What to do if you smell gas:

Do not try to light any appliance.

Do not touch any electrical switch; do not use any phone in your building.

Evacuate the room, building or area.

Contact the laundry manager.

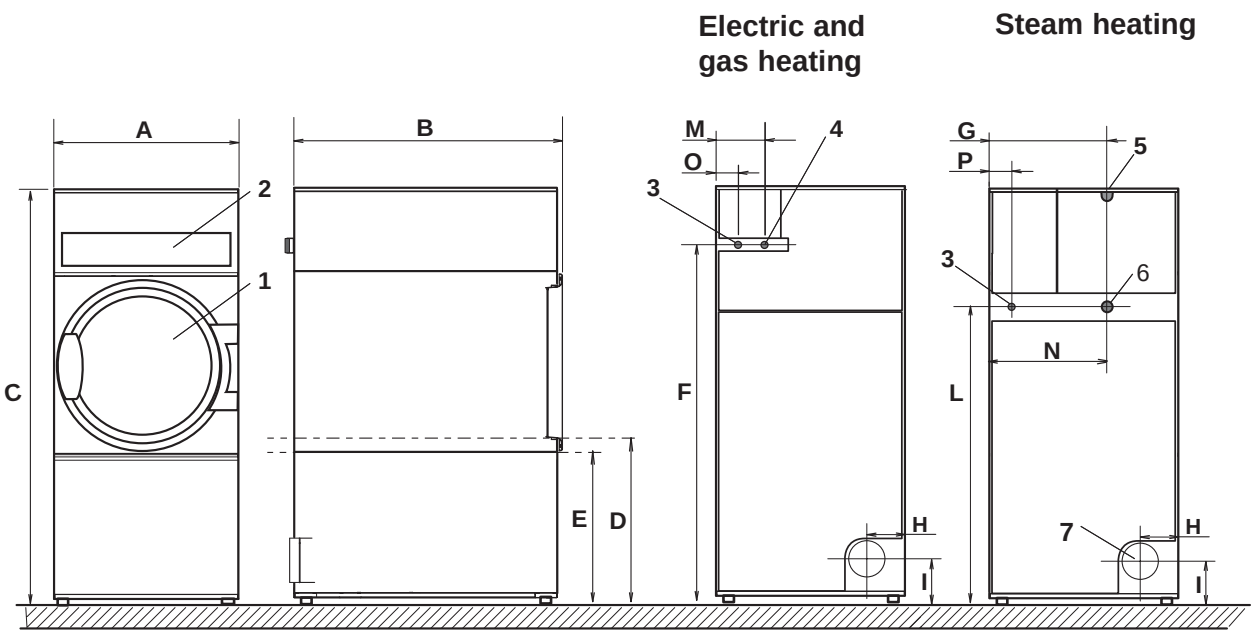
* Applies only to floor mops containing polypropylene.

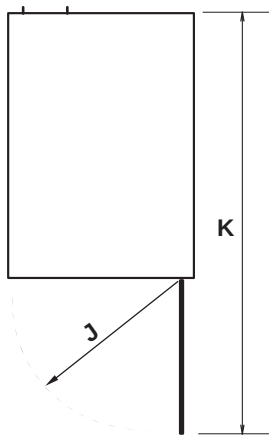
The dryer must not be installed behind a lockable door or a sliding door. In the rooms where the dryer is to be installed the door hinges must be on the outer side.

Contents

Dimension sketch T4290, T4530, T4650

		T4290	T4530/T4650		
1	Door opening	Ø 580	Ø 810	7	Pipe connection, evacuation
2	Operating panel				
3	Electric connection				
4	Gas connection				
5	Steam in				
6	Steam out				





	A	B	C	D	E	F	G	H
T4290	710	1120	1880	780	725	1610	470	135
T4530	960	1180	1995	720	650	1725	595	155
T4650	960	1370	1995	720	650	1725	595	155
	I	J	K	L	M	N	O	P
T4290	170	700	1810	1395	250	500	70	190
T4530	225	950	2120	1510	270	595	140	170
T4650	225	950	2300	1510	270	595	140	170

Technical data, T4290

Heating		Electric	Steam	Gas
Drum volume:		286 litres	286 litres	286 litres
Weight:	Net	220 kg	220 kg	220 kg
Drum:	Diameter	680 mm	680 mm	680 mm
	Depth	790 mm	790 mm	790 mm
	Revolutions per minute	44 rpm	44 rpm	44 rpm
	G-factor	0.8	0.8	0.8
Load:		13.5 kg	13.5 kg	13.5 kg
Motor:	Effect without reverse	0.37 kW	0.37 kW	0.37 kW
	Effect with reverse	2 x 0.37 kW	2 x 0.37 kW	2 x 0.37 kW
	Revolutions per minute:			
	Motor 50 Hz	1400 rpm	1400 rpm	1400 rpm
	Motor 60 Hz	1680 rpm	1680 rpm	1680 rpm
Heat effect:	Electric heating	13.5 kW	Variable, depending	
	Electric heating	18.0 kW	on steam pressure	
	Gas heating			21.0 kW
Air consumption:	Electric 13.5 kW	430 m^3/h		
	Electric 18.0 kW	690 m^3/h		
	Steam		925 m^3/h	
	Gas			690 m^3/h
Pipe connection:	Evacuation	Ø 200	Ø 200	Ø 200
	Steam		ISO 7/1-Rp1/2	
	Condensate outlet		ISO 7/1-Rp1/2	
Steam:	Recommended pressure (absolute)		100-1000 kPa	
	Max. allowable pressure		1000 kPa	
Drop in pressure:	Evacuation	max. 80 Pa	max. 80 Pa	max. 80 Pa
Gas pipe connection:				ISO 7/1-R1/2
Gas pressure:	See page regarding pressure			
Noise level:		< 70 dB (A)	< 70 dB (A)	< 70 dB (A)

Technical data, T4530

Heating		Electric	Steam	Gas
Drum volume:		528 litres	528 litres	528 litres
Weight:	Net	300 kg	340 kg	300 kg
Drum:	Diameter	913 mm	913 mm	913 mm
	Depth	812 mm	812 mm	812 mm
	Revolutions per minute	40 rpm	40 rpm	40 rpm
	G-factor	0.8	0.8	0.8
Load:		27 kg	27 kg	27 kg
Motor:	Effect	2 x 0.37 kW	2 x 0.37 kW	2 x 0.37 kW
	Revolutions per minute:			
	Motor 50 Hz	1400 rpm	1400 rpm	1400 rpm
	Motor 60 Hz	1680 rpm	1680 rpm	1680 rpm
Heat effect:	Electric heating	24.0 kW	Variable, depending	
	Electric heating	30.0 kW	on steam pressure	
	Gas heating			40.0 kW
Air consumption:	Electric 24.0 kW	840 m^3/h		
	Electric 30.0 kW	1060 m^3/h		
	Steam		1380 m^3/h	
	Gas			1160 m^3/h
Pipe connection:	Evacuation	Ø 200	Ø 200	Ø 200
	Steam:		ISO 7/1-Rp 3/4	
	Condensate outlet:		ISO 7/1-Rp 3/4	
Steam:	Recommended pressure (absolute)		100-1000 kPa	
	Max. allowable pressure		1000 kPa	
Drop in pressure:	Evacuation	max. 200 Pa	max. 200 Pa	max. 60 Pa
Gas pipe connection:				ISO 7/1 - R1/2
Gas pressure:	See page regarding pressure			
Noise level:		< 70 dB (A)	< 70 dB (A)	< 70 dB (A)

Technical data, T4650

Heating		Electric	Steam	Gas
Drum volume:		650 litres	650 litres	650 litres
Weight:	Net	340 kg	345 kg	325 kg
Drum:	Diameter	913 mm	913 mm	913 mm
	Depth	998 mm	998 mm	998 mm
	Revolutions per minute	44 rpm	44 rpm	44 rpm
	G-factor	0.9	0.9	0.9
Load:		35 kg	35 kg	35 kg
Motor:	Effect of drum motor	0.37 kW	0.37 kW	0.37 kW
	Effect of fan motor	0.80 kW	0.80 kW	0.80 kW
	Revolutions per minute:			
	Motor 50 Hz, drum	1400 rpm	1400 rpm	1400 rpm
	Motor 60 Hz, drum	1680 rpm	1680 rpm	1680 rpm
	Motor 50 Hz, fan	2800 rpm	2800 rpm	2800 rpm
	Motor 60 Hz, fan	3300 rpm	3300 rpm	3300 rpm
Heat effect:	Electric heating	30.0 kW	Variable, depending	
	Electric heating	36.0 kW	on steam pressure	
	Gas heating			57.0 kW
Air consumption:	Electric 30.0 kW	1500 m^3/h		
	Electric 36.0 kW	1500 m^3/h		
	Steam		1500 m^3/h	
	Gas			1500 m^3/h
Pipe connection:	Evacuation	Ø 200	Ø 200	Ø 200
	Steam:		ISO 7/1-Rp 3/4	
	Condensate outlet:		ISO 7/1-Rp 3/4	
Steam:	Recommended pressure (absolute)		100-1000 kPa	
	Max. allowable pressure		1000 kPa	
Drop in pressure:	Evacuation	max. 340 Pa	max. 340 Pa	max. 340
Gas pipe connection:				ISO 7/1-R3/4
Gas pressure:	See page regarding pressure			
Noise level:		< 70 dB (A)	< 70 dB (A)	< 70 dB (A)

Setup T4290, T4530

Unpacking

When unpacking the machine, handle it with care. There are no transport clamps.

Positioning

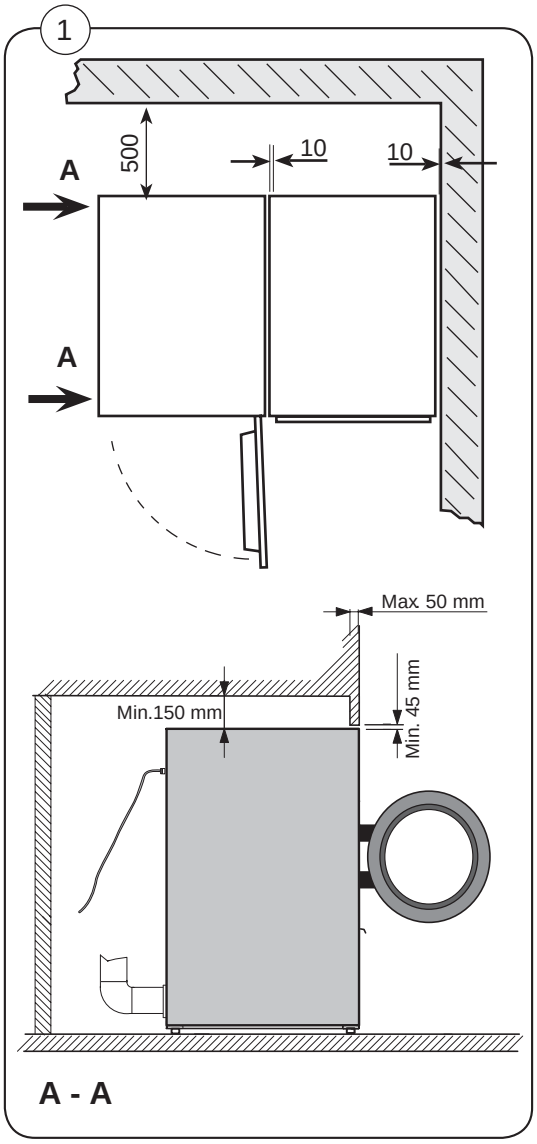
Fig. 1 Position the tumble dryer so there is plenty of working room, both for the user and for the service technician.

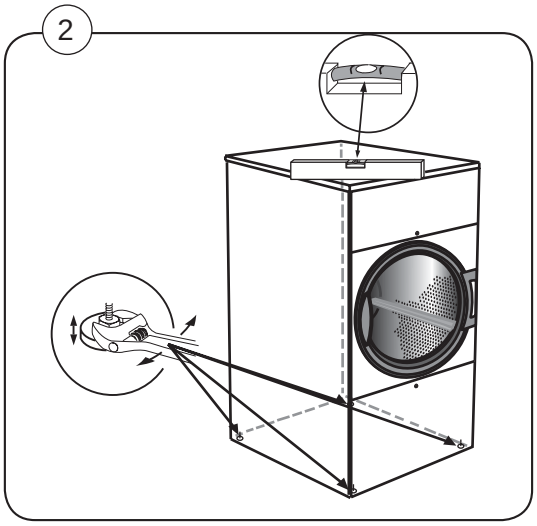
The distance from the wall or other equipment behind the tumble dryer should be at least 500 mm and the space at the sides at least 10 mm. Note that for servicing purposes access to the rear of the tumble dryer is required.

Mechanical installation

Fig. 2 Adjust the machine to make it stand horizontally and stably on all four feet.

The max. height adjustment of the feet is 15 mm.





Setup T4650

Unpacking

When unpacking the machine, handle it with care. There are no transportation brackets to remove.

Fig. 1 From factory the dryer is equipped with 4 supporting feet **A**.

Remove the dryer from the pallet

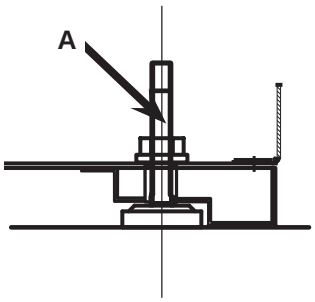
At least two people are required to remove the dryer from the pallet.

The tumble dryer is fastened to the pallet by 3 transportation screws.

1. Open filter door. Remove the 2 transportation screws by the front.
2. Remove the bottom back plate. Remove transportation screw by the back plate. Mount back plate.
3. Place a 1 1/2” steel pipe at the back of the dryer as shown in fig. 2.
4. Stand behind the dryer and tilt it forward. When the dryer rises from the pallet push the pipe under the dryer, fig. 3.
5. Push the dryer from the front so that it hangs off of the back edge of the pallet, fig. 4.
6. Remove the steel pipe by tilting the dryer forward while removing the pipe.
7. Install the 2 back feet (supplied the dryer).
8. Push the dryer backwards on the pallet until it leans on the 2 back feet.
9. Mount the 2 front feet.
10. Remove the pallet.
11. The dryer is now on the floor.

If necessary, adjust the feet after the dryer is in its final position. See next page.

1



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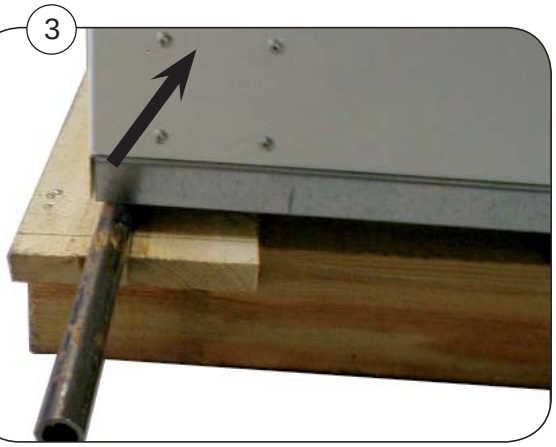

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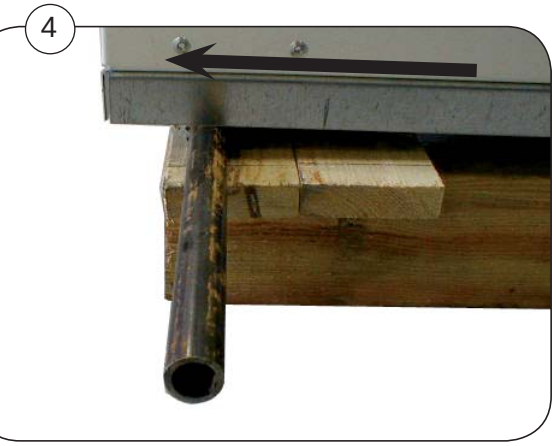


Setup T4650

Positioning

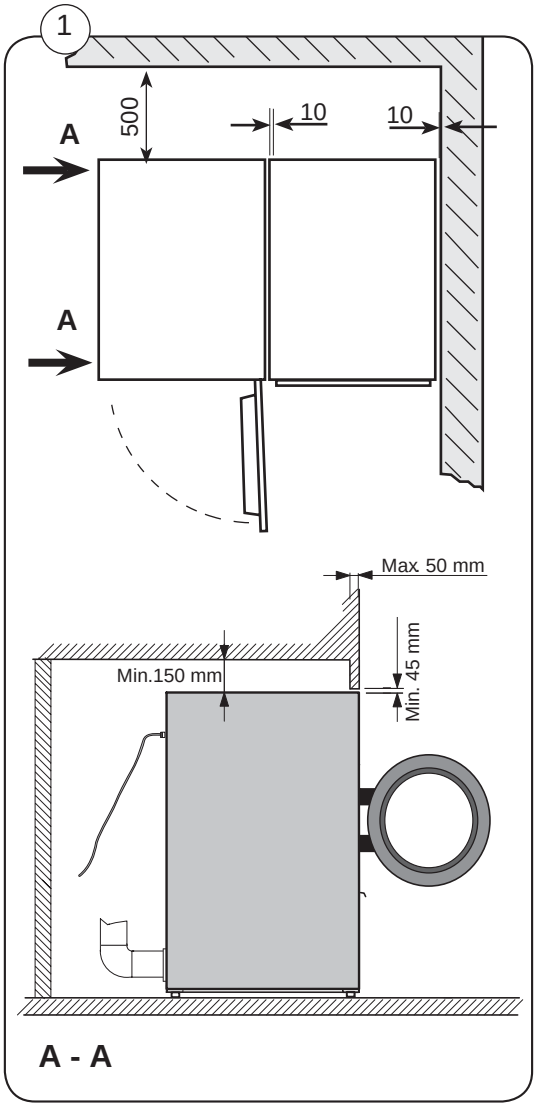
Fig. 1 Position the tumble dryer so that there is plenty of room for working, both for the user and for the service technician.

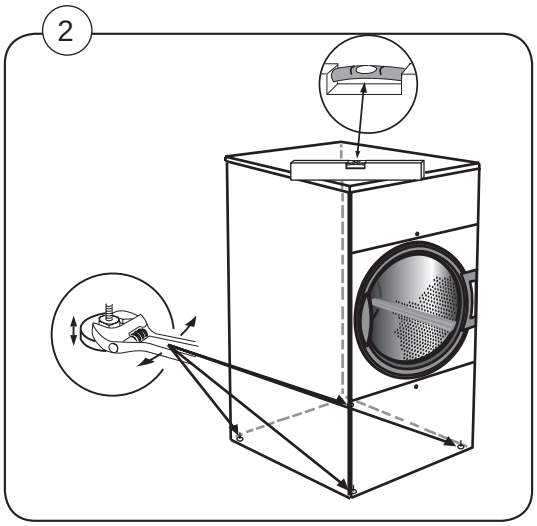
The distance from the wall or other equipment behind the tumble dryer should be at least 500 mm and the space at the sides at least 10 mm. Note that for servicing purposes, access to the rear of the tumble dryer is required.

Mechanical installation

Fig. 2 Adjust the machine to make it stand horizontally and stably on all four feet.

The max. height adjustment of the feet is 15 mm.





Reversing the door

The dryer is usually delivered with a right hinged door but the door can be changed to left hinged position, as illustrated below, or vice versa.

Door reversal instructions

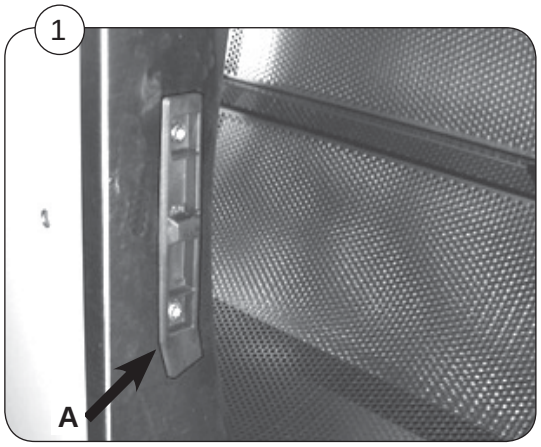
1. Disconnect the power supply to the dryer.
2. Dismount the door.
3. Dismount locking unit **A**, fig. 1.
4. Remove the screws that secure the centre front panel to the dryer and remove the entire panel.
5. Disconnect the door switch wires **B** and move them to the opposite side of the dryer, fig. 2.

   Pull the wires through opening **C** and down through opening **D**. Also remember to move the bushing and mount it in opening **D,** fig. 3 & 4.
6. Dismount the bracket with switch and turn it 180°.

   Note! When turning the bracket the wires are facing downwards. Lead them upwards towards the operating panel and fasten them with cable strips.
7. Mount the bracket with switch on the left side and connect the wires as before.

To be continued on the following page.

1



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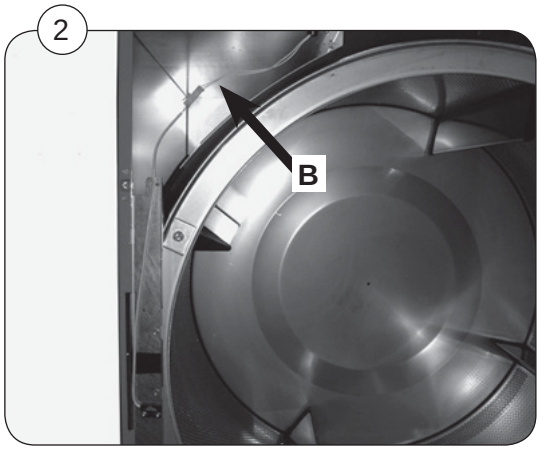

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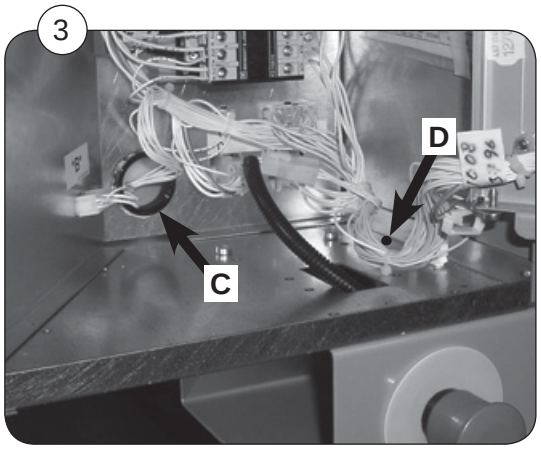

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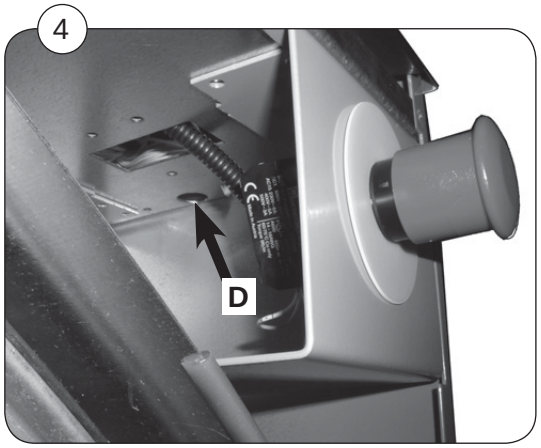


Continued

8. In order to prevent false air to enter, attatch the sealing strip around the drum casing edge on the same side as the door is to be hinged, fig. 5 & 6 - see how it is done by looking at the tape attatched on the opposite side.

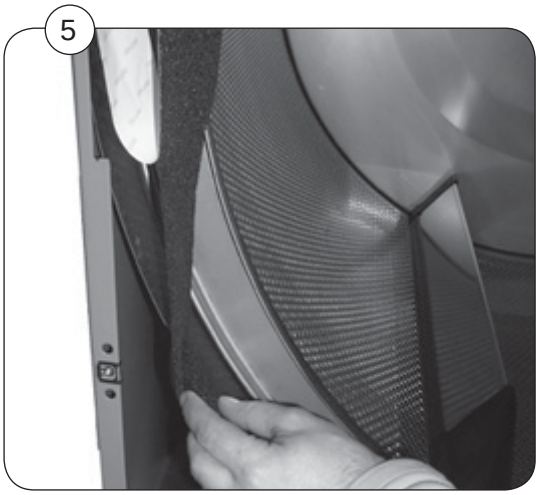
   Note! The sealing strip is enclosed in the drum.

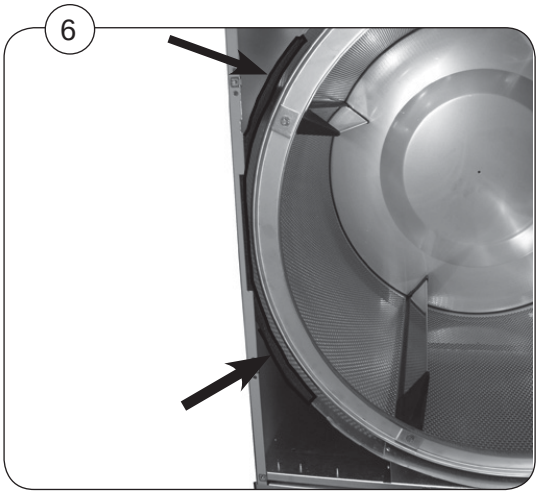
9. Make sure that the 4 guard strips on the casing are intact before mounting the front panel, fig. 7.

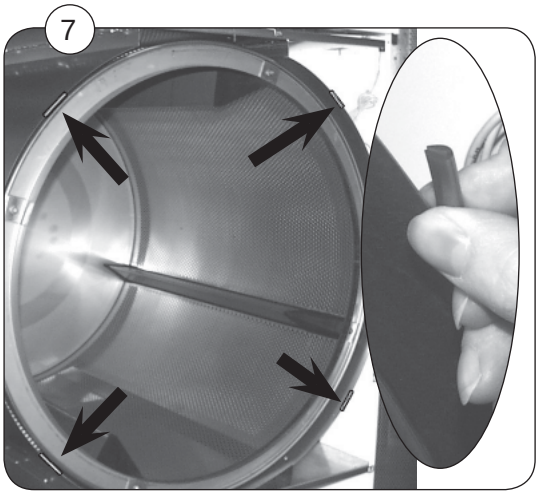
10. **T4530/4650 only**
    Remove the small cover plate on the centre front panel and mount it in the opposite corner.

11. Turn the front panel upside down and re-mount it.

12. Turn the door upside down and re-mount it.







Test run

Check for proper operation of the door switch, as follows:

1. Re-connect the power supply to the dryer
2. Attempt to start the dryer with the door open. It must not start.
3. Close the door and start the machine. Open the door. The dryer must stop.

If the dryer starts with the door open, or fails to stop when the door is opened during operation, repair or replace the door switch, as necessary.

Installation on board a ship

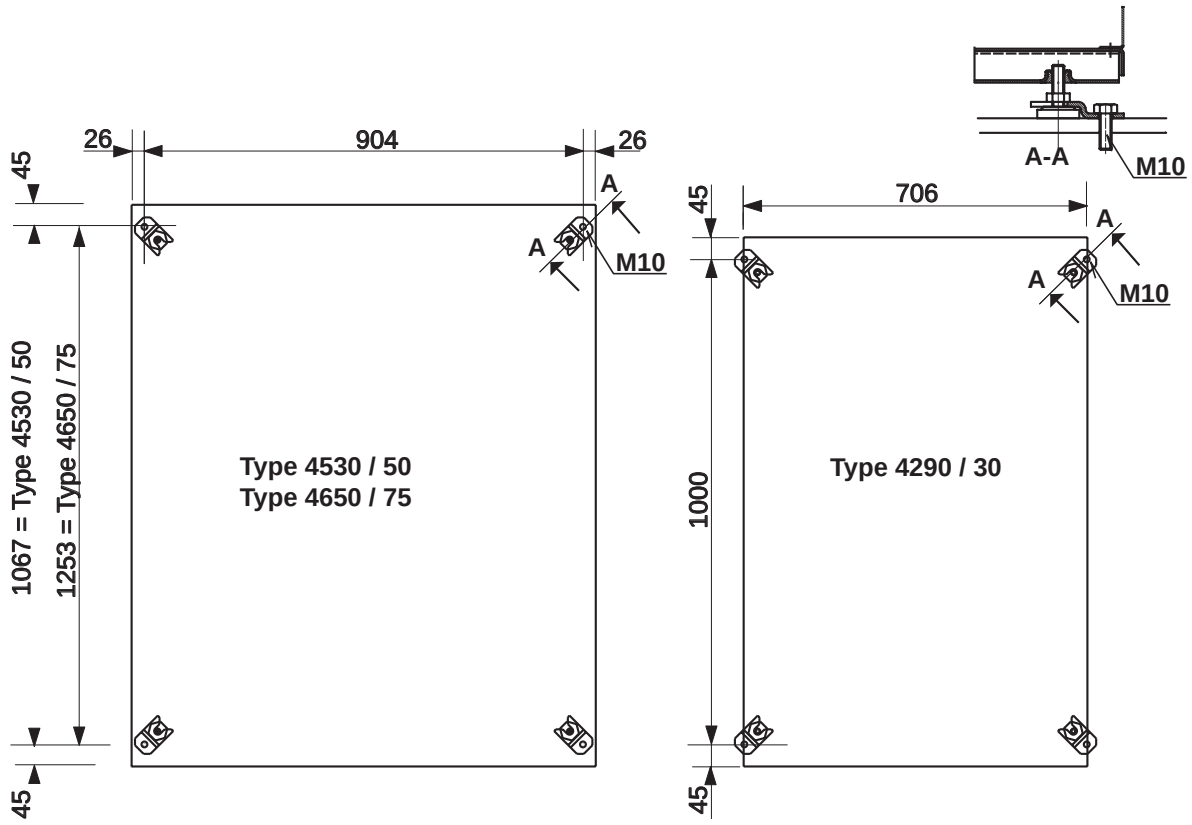
The four accompanying fittings are fastened to the foundation by means of 4 x M10 set screws (supplied with marine models).

Fastening to the base

If the dryer needs fastening to the base a kit containing 4 fittings can be ordered. Kit no. **472 77 77 01.**

The four fittings are fastened to the base by means of 4 x M10 expander bolts.

Drilling plan



Evacuation system

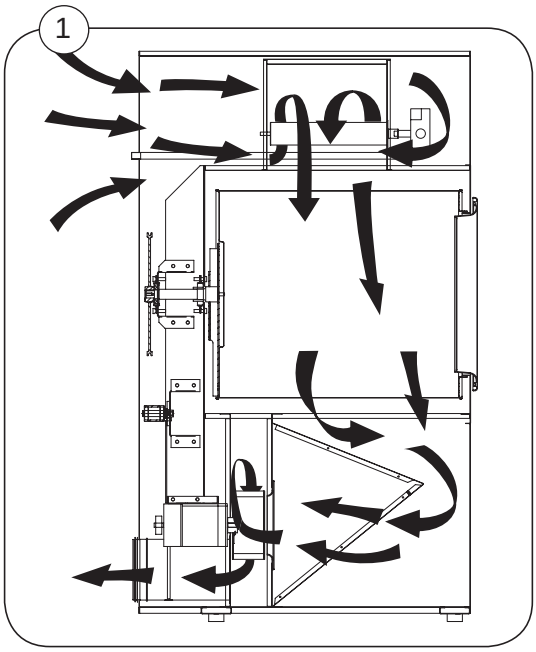
Air principle

Fig. 1 The blower creates low pressure in the dryer, drawing air into the cylinder via the heating unit.

The heated air passes through the garments and the cylinder vents.

The air then flows out through a lint filter positioned straight below the drum. After this, the air is evacuated through the blower and exhaust system.

It is very important that the dryer gets enough fresh air, see next section.



Evacuation system

Fresh-air

For maximum efficiency and the shortest possible drying time, it is important to ensure that fresh air is able to enter the room from the outside in the same volume as that blown out of the room.

Fig. 1 To avoid a draught in the room, it is advisable to place the air inlet behind the dryer.

Fig. 2 The area of the air inlet opening must be 5 times the size of the exhaust pipe area.
The area of the inlet opening is the area through which the air can flow without resistance from the grating/slatted cover.

See table on the following page.

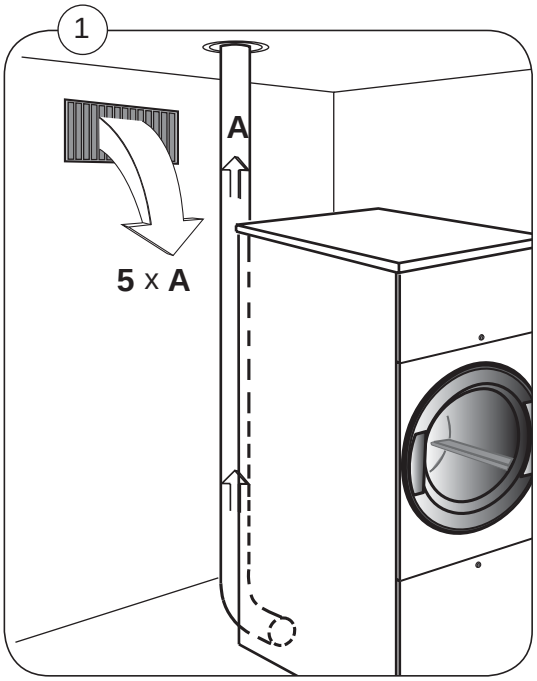
Note! Gratings/slatted covers often block half of the total fresh air vent area. Remember to take this into account

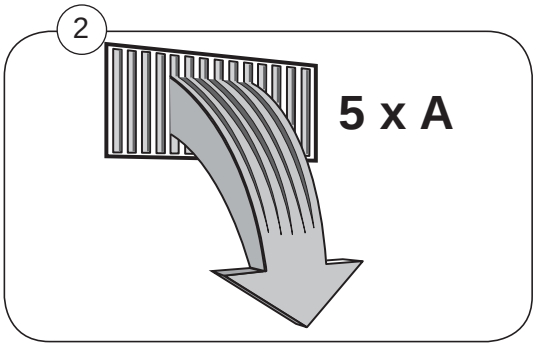
The resistance in the grating/slats on the air inlet cover plate should not exceed 10 Pa (0.1 mbar).

T4290: The air consumption is approximately 430 - 925 m3/h.

T4530: The air consumption is approximately 840 - 1380 m3/h.

T4650: The air consumption is approximately 1500 m3/h.





Evacuation system

Exhaust duct

It applies to the exhaust duct that:

- The exhaust duct must be smooth on the inside (low air resistance).
- The exhaust duct must lead into the open.
- The exhaust duct must lead clear of the building as condensation may cause frost damage to the building.
- The exhaust duct must be protected against rain and foreign objects.
- The exhaust duct must have gentle bends, fig. 1.
- The exhaust duct must not be a shared duct between dryers and appliances using gas or other fuels as their energy source.

It applies to the installation of several dryers on a shared exhaust duct that:

- The exhaust duct diameter must increase after each dryer, fig. 2.
  The table below shows the exhaust duct diameter and the necessary fresh-air inlet area.

Note! It is recommended that each dryer is connected to a separate exhaust duct.

Service organization/dealer

If you have questions relating to the design of the exhaust system, please contact your local dealer or service organization.

The exhaust duct diameter must not be reduced.

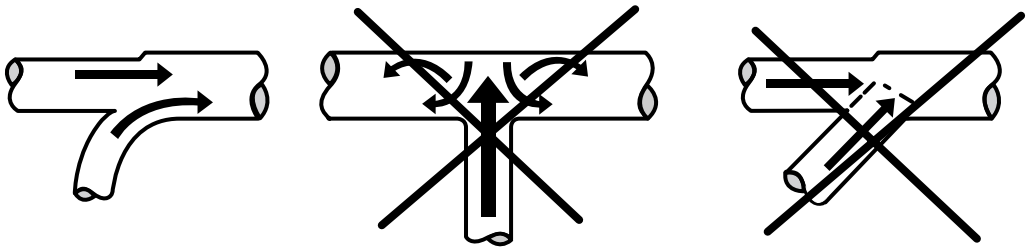
No. of dryers	1	2	3	4	5	6	7	8	9	10
Exhaust duct diameter in mm	200	280	315	355	400	450	475	500	535	560
Minimum area of fresh-air intake in m^2	0.15	0.30	0.45	0.60	0.75	0.90	1.05	1.20	1.35	1.50

Each dryer requires a fresh-air aperture of min. 400 x 400 mm.

Evacuation system

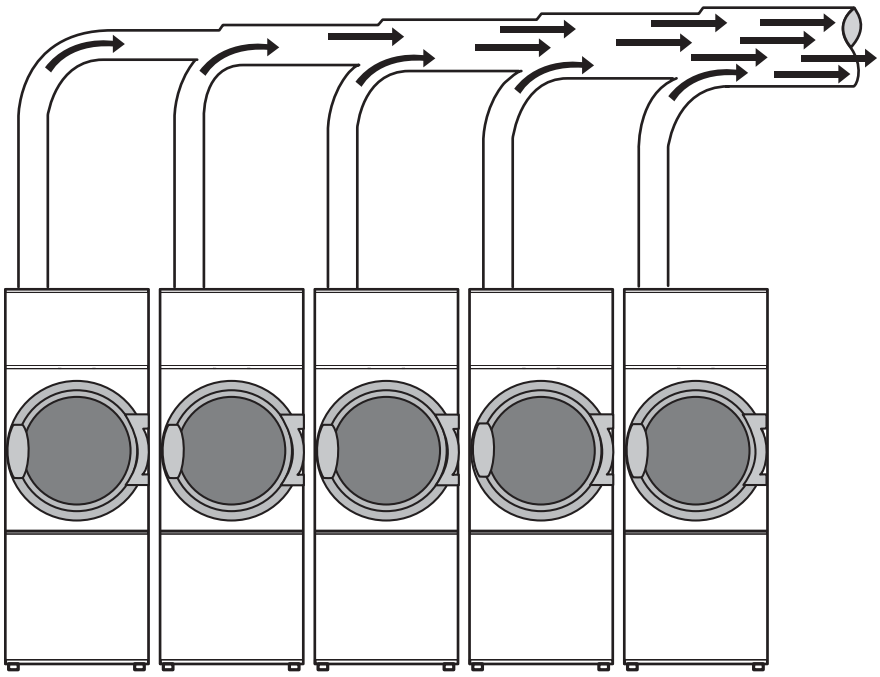
Gentle bends

1



Several dryers on a shared exhaust duct

2



Evacuation system

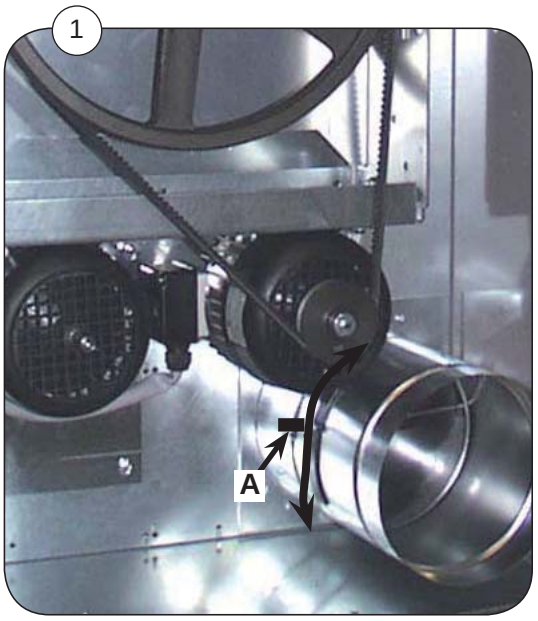
Nonreturn flap

In order to achieve the best result it is important that the dryer has the right volume of air to work with.

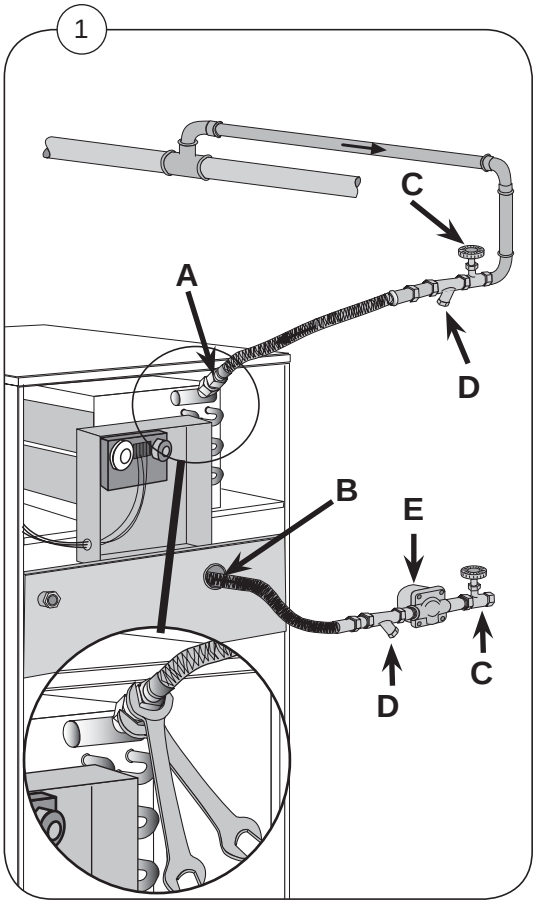
From factory the nonreturn flap is set to be wide open.

Adjusting the dryer

1. Dismount the back plate.
2. Adjust the amount of air by opening/closing the damper **A**, fig. 1.



Steam installation



Before start

The steam pipe must be cut off and must not be under pressure.

Steam

Steam 3-10 bar absolute pressure (130- 180°C).

Steam forward

1. The branch pipe's branch must be located at the top of the main steam pipe to prevent condensation in the steam.
2. The branch pipe must have a descending gradient and must end at a height above the inlet connecting branch (A).
3. Mount a plug valve (C) and a dirt collector (D) in the branch pipe.

Condensation return

1. It is important that the branch pipe for condensed water on return to the main condensation pipe has a descending gradient and is lower than the outlet connecting branch (B).
2. Mount a dirt collector (D) in the return pipe.
3. Mount a mechanical water discharger behind the dirt collector (E).
4. Then mount a plug valve (C).
5. Mount pressure hoses between branch pipes and dryer.

Leak test

1. Leak test the system.
2. Clean the dirt collectors (D).

Function check

The function check is described in the back of this manual.

Pipe insulation

All pipes must be insulated in order to reduce risk of burning. Insulation also reduces loss of heat to the surroundings.

Gas installation general

To be carried out by qualified personnel

Mount a shut-off valve upstream from the dryer.

The gas connection to the dryer should be dimensioned to an output depending on the kW-rating of the dryer.

The factory nozzle pressure setting corresponds to the fuel value given on the data label.

Check that the nozzle pressure and fuel value correspond with the values in the gas tables on the following pages. If not, contact the supplier.

Bleed the pipe system before connecting the dryer.

After connection, test all joints for leaks.

Test run

1. Loosen the measuring branch screw (2) 1/4 of a turn and connect a manometer.
2. Select a programme that uses heat.
3. Start the dryer.
4. Check the nozzle pressure, see table on the following pages.
5. If the gas pressure needs adjusting, adjust the setting screw (4) under the cover screw (3) (higher pressure: clockwise, lower pressure: anticlockwise)

   T4650 only
   Then move the manometer to branch (2) on the lower valve and adjust the pressure as described above.

   Move the manometer to branch (2) on the upper valve in order to check the pressure - adjust if necessary.
6. Check that the gas is burning evenly and with a bluish flame.

The numbers in brackets refer to the page regarding the gas valve.

Function check

The function check is described in the back of this manual.

Gas installation general

Converting to bottled gas / natural gas

If the machine is to be converted to another type of gas, the gas nozzle must be replaced.

1. Remove nozzle.

2. Mount the accompanying nozzle (1).

3. Loosen the measuring branch screw (2) 1/4 turn; connect a manometer to the measuring branch (2).

4. Connect the power and select a heat programme.

5. Start the dryer.

6. Set the nozzle pressure on setting screw (4) under nipple (3).

7 Check that the gas flame burns evenly and has a bluish colour.

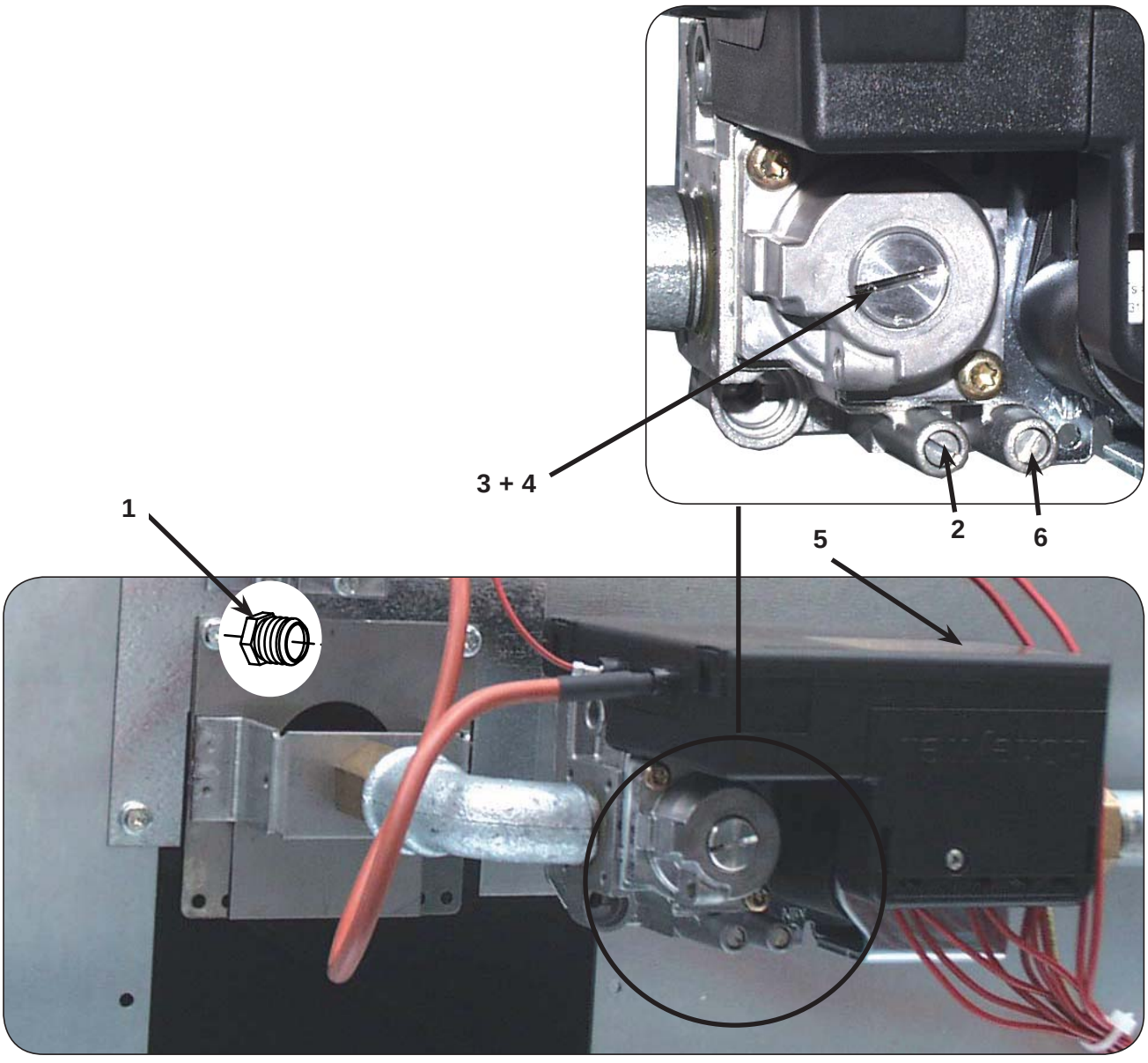
8. Mount the cover screw (3).

The numbers in brackets refer to the page regarding the gas valve.

Gas installation T4290, T4530

Gas valve

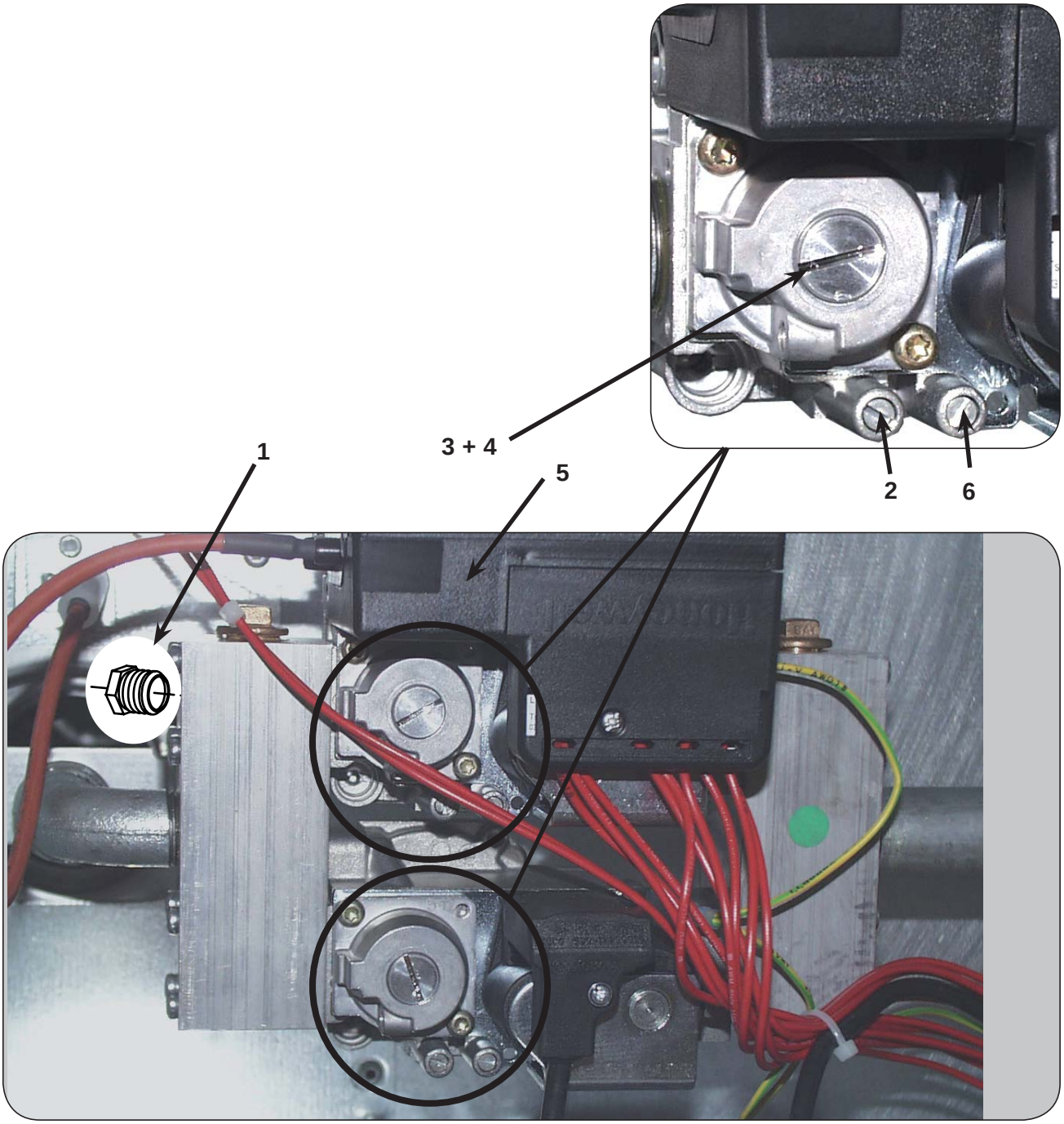
1. Nozzle
2. Measuring branch, nozzle pressure
3. Cover screw
4. Adjusting screw
5. Control box, gas valve
6. Measuring branch, supply pressure



Gas installation T4650

Gas valve

1. Nozzle
2. Measuring branch, nozzle pressure
3. Cover screw
4. Adjusting screw
5. Control box, gas valve
6. Measuring branch, supply pressure



Gas installation

Tables of pressure and adjustments

T4290 heat effect: 21 kW

Note
Because of the differences in gas installation regulations in European Union it is important to use the Italian-language manual in Italy and the French-language manual in France etc.

T4290	a	b mbar	c mbar	d mm
Denmark Norway Sweden Finland	LPG GNH	30 20	30 10.5	2.20 3.80
Italy England Spain Portugal Ireland Greece	LPG GNH	28 / 37 20	28 / 37 10.5	2.20 3.80
France Belgium	LPG GN	28 / 37 20 / 25	28 / 37 20 / 25	2.20 3.30
Polen	LPG	36	36	2.1
Germany	LPG GNH GNL	30 / 50 20 20	30 10.5 15.2	2.20 3.80 3.80
Holland	LPG GNL	30 25	30 15.2	2.20 3.80
Austria	LPG GNH	50 20	30 10.5	2.20 3.80
Japan	LPG	28	28	2.30
Australia	LPG GN	2.75 kPa 1.13 kPa	2.57 kPa 0.8 kPa	2.40 4.00
New Zealand	LPG GNH	2,75 kPa 1.7-2.25 kPa	2,75 kPa 1.05 kPa	2.20 3.80
The rest of the world except: USA	LPG GNH GNL	30 20 20	30 10.5 15.2	2.20 3.80 3.80

a **Gas type**
b **Connection pressure**
c **Nozzle pressure**
d **Nozzle**

Gas installation

Tables of pressure and adjustments

T4530 heat effect: 40 kW

Note
Because of the differences in gas installation regulations in European Union it is important to use the Italian-language manual in Italy and the French-language manual in France etc.

T4530	a	b mbar	c mbar	d mm
Denmark Norway Sweden Finland	LPG GNH	30 20	30 8.0	3.20 5.60
Italy England Spain Portugal Ireland Greece	LPG GNH	28 / 37 20	28 / 37 8.0	3.20 5.60
France Belgium	LPG GN	28 / 37 20 / 25	28 / 37 20 / 25	3.20 4.70
Polen	LPG	36	36	3.05
Germany	LPG GNH GNL	30 / 50 20 20	30 8.0 8.0	3.20 5.60 6.20
Holland	LPG GNL	30 25	30 8.0	3.20 6.20
Austria	LPG GNH	50 20	30 8.0	3.20 5.60
Japan	LPG	28	28	3.20
Australia	LPG GN	2.75 kPa 1.13 kPa	2.44 kPa 0.8 kPa	3.50 5.60
New Zealand	LPG GNH	2.75 kPa 1.7-2.5 kPa	2.75 kPa 0.8 kPa	3.20 5.60
The rest of the world except: USA	LPG GNH GNL	30 20 20	30 8.0 8.0	3.20 5.60 6.20

a **Gas type**
b **Connection pressure**
c **Nozzle pressure**
d **Nozzle**

Gas installation

Tables of pressure and adjustments

T4650 heat effect: 57 kW

Note
Because of the differences in gas installation regulations in European Union it is important to use the Italian-language manual in Italy and the French-language manual in France etc.

T4650	a	b mbar	c mbar	d mm
Denmark Norway Sweden Finland	LPG GNH	30 20	30 9.5	3.80 6.50
Italy England Spain Portugal Ireland Greece	LPG GNH	28 / 37 20	28 / 37 9.5	3.80 6.50
Belgium France	LPG GN	28 / 37 20 / 25	28 / 37 20 / 25	3.80 5.40
Polen	LPG	36	36	3.65
Germany	LPG GNH GNL	30 / 50 20 20	30 9.5 14.0	3.80 6.50 6.50
Holland	LPG GNL	30 25	30 14.0	3.80 6.50
Austria	LPG GNH	50 20	30 9.5	3.80 6.50
Japan	LPG	28	28	3.80
Australia	LPG GN	2.75 kPa 1.13 kPa	2.62 kPa 0.8 kPa	3.80 6.50
New Zealand	LPG GNH	2.75 kPa 1.7-2.5 kPa	2.75 kPa 0.95 kPa	3.80 6.50
The rest of the world except: USA	LPG GNH GNL	30 20 20	30 9.5 14.0	3.80 6.50 6.50

a **Gas type**
b **Connection pressure**
c **Nozzle pressure**
d **Nozzle**

Electric installation

To be carried out by qualified personnel

The tumble dryer must be connected to its own fuse group and multi-pole main switch according to IEC 60947.

The sizes of the fuse group and the effect are shown on the following page.

The tumble dryer must be equipped with supplementary protection in accordance with heavy current regulations.

For calculation of the connection cable dimension, please refer to local guidelines.

Connecting the cable (within the EU and EEA)

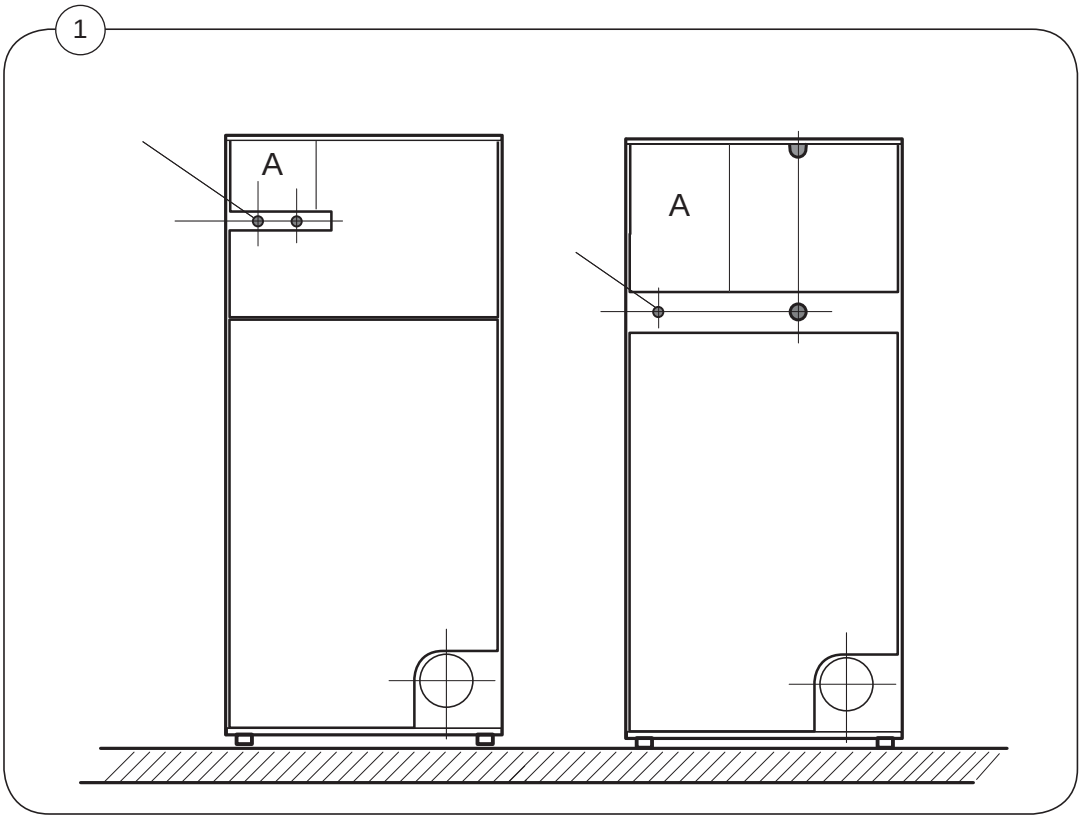
1. Demount cover plate **A**, fig. 1 on the following page.
2. Pass the feeder cable through cable gland****,** fig. 1 on the following page.
3. Turn knob* to ‘O’/‘OFF’
4. Connect the feeder cable as illustrated on the following page.
5. Remount cover plate **A** .
6. Function check the dryer
   The function check is described in the back of this manual.

* Lockable knob is fitted on machines type 4530 and 4650 for countries within the EU and EEA (the machine directive standard for disconnecting the electrical supply during servicing).

Electric installation

Connecting the cable (outside the EU and EEA)

1. Demount cover plate **A**, fig. 1.
2. Pass the feeder cable through cable gland****,** fig. 1.
3. Connect the feeder cable as illustrated.
4. Remount cover plate **A**.
5. Function check the dryer.
   The function check is described in the back of this manual.



Cable gland for feeder cable

Fig 1 Positioning of cable gland for feeder cable.

On electric heated dryers type T4530 and T4650 the cable gland is not mounted. The cable gland is in the drum and has to be mounted on the beam.

Electric installation - electric, gas, steam heated

To be carried out by qualified personnel

The tumble dryer must be connected to its own fuse group and pulti-pole main switch according to IEC 60947.

Connecting the cable

Demount the cover plate from the supply unit.

The cable is led through the cable gland to the terminal block and connected as illustrated. If there is a neutral conductor in the power supply line this must be connected to terminal N:

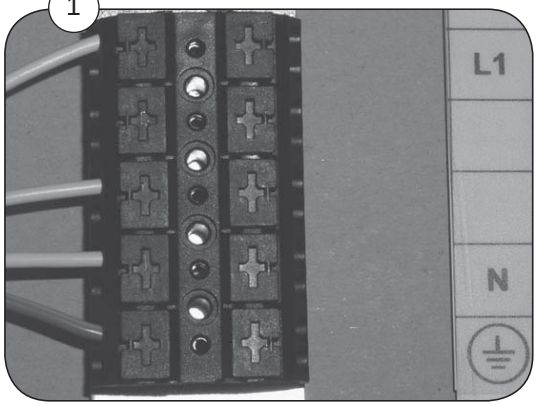
Fig. 1 Gas and steam heated 1-phase

Fig. 2 Gas and steam heated 1-phase with supply disconnector

Fig. 3 Gas and steam heated 3-phase

To be continued on the following page

1



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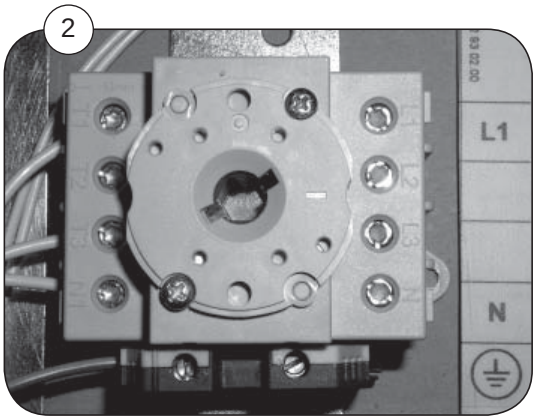

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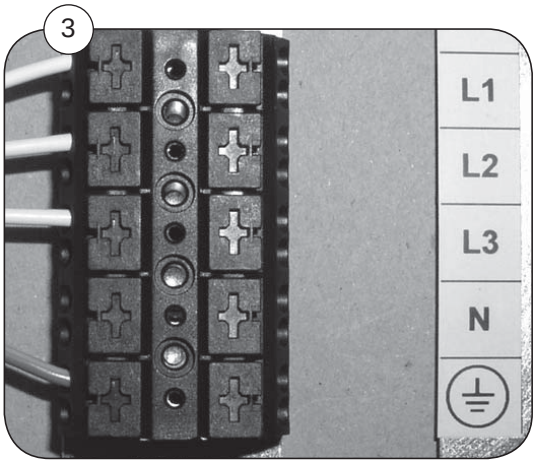


Continued

Fig. 4 Gas and steam heated 3-phase with supply disconnector

Fig. 5 Electric heated 3-phase

Fig. 6 Electric heated 3-phase with supply disconnector

Cable dimension

For calculation of the connection cable dimension, please refer to local guidelines.

Fuse group and effect

The sizes of the fuse group and the effect are shown on the following pages.

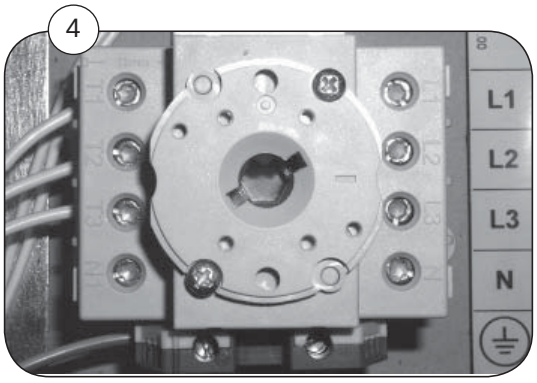
Function check

The function check is described in the back of this manual.

Note! Correct direction of rotation is important!

The dryer must be equipped with supplementary protection in accordance with heavy current regulations.

4



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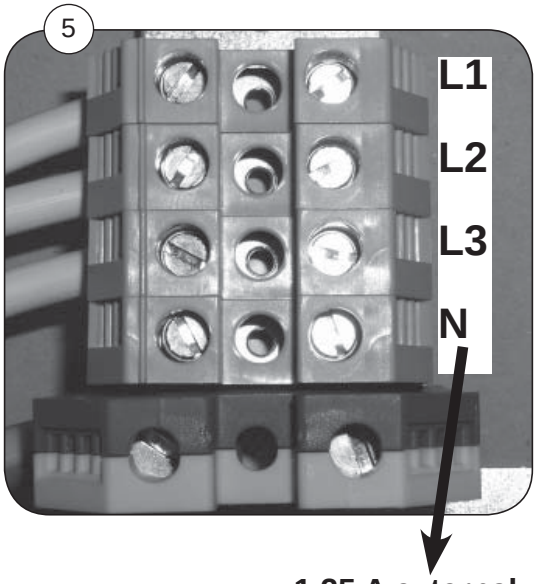
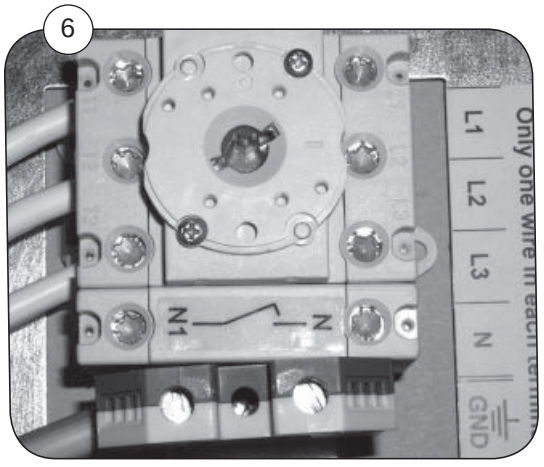


1.25 A external control only

6



Electric installation - options

External connection - 100 mA

A special connection terminal is located on the connection console fig. 1.

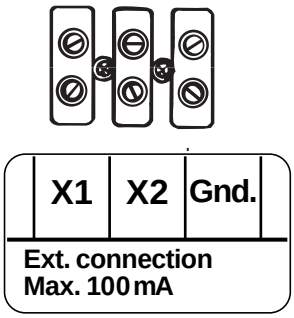
This connection can be used as external control of a fan.

The terminal for external control is equipped with 110V/ max.100mA and is intended solely for the operation of a contactor

Max. connection 100mA.

Gnd. must not be used for earthing of external board.

1



External connection - 1.25 A

A special connection for an external fan can be chosen on the connection console.

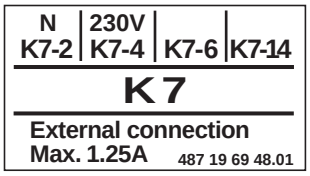
This connection is only available on 400V-3N machines.

Mount cable for external connection on contactor K7 in K7-2 and K7-4, fig.2.

Connect earth conductor to earth terminal for external connection, fig. 1.

Max. connection 1.25A.

2



Electric installation - T4290

Fuse sizes, effects and voltages

	Voltage			Heat effect kW	Motor effect kW	Max. effect kW	Fuse
Gas	230-240V	3AC 50/60Hz	w/reversing	21 kW	1.5 kW	1.5 kW	10A
	230-240V	3AC 50/60Hz	wo/reversing	21 kW	1.0 kW	1.0 kW	10A
	230-240V	1AC 50/60Hz		21 kW	1.5 kW	1.5 kW	10A
	400-480V	3AC 60HZ	w/reversing	21 kW	1.5 kW	1.5 kW	10A
	400-480V	3AC 60HZ	wo/reversing	21 kW	1.0 kW	1.0 kW	10A
	400-415V	3AC 50Hz	w/reversing	21 kW	1.5 kW	1.5 kW	10A
	400-415V	3AC 50Hz	wo/reversing	21 kW	1.0 kW	1.0 kW	10A
Steam	230-240V	3AC 50/60Hz	w/reversing		1.5 kW	1.5 kW	10A
	230-240V	3AC 50/60Hz	wo/reversing		1.0 kW	1.0 kW	10A
	230-240V	1AC 50/60Hz			1.5 kW	1.5 kW	10A
	400-480V	3AC 60HZ	w/reversing		1.5 kW	1.5 kW	10A
	400-480V	3AC 60HZ	wo/reversing		1.0 kW	1.0 kW	10A
	400-415V	3AC 50Hz	w/reversing		1.5 kW	1.5 kW	10A
	400-415V	3AC 50Hz	wo/reversing		1.0 kW	1.0 kW	10A
Electric	230-240V	3AC 50/60Hz		13,5 kW	1.5 kW	15.0 kW	50A
	400-415V	3AC 50/60Hz		13,5 kW	1.5 kW	15.0 kW	25A
	440-480V	3AC 60 Hz		13,5 kW	1.5 kW	15.0 kW	20A
	230-240V	3AC 50/60Hz		18 kW	1.5 kW	19.5 kW	50A
	400-415V	3AC 50/60HZ		18 kW	1.5 kW	19.5 kW	35A
	440-480V	3AC 60 Hz		18 kW	1.5 kW	19.5 kW	25A

Electric installation - T4530

Fuse sizes, effects and voltages

	Voltage	Heat effect kW	Motor effect kW	Max. effect kW	Fuse
Gas	230-240V 3AC 50/60 Hz	40 kW	1.5 kW	1.5 kW	10A
	230-240V 1AC 50/60Hz	40 kW	1.5 KW	1.5 kW	10A
	400-415V 3AC 50/60Hz	40 kW	1.5 kW	1.5 kW	10A
	440-480V 3AC 60Hz	40 kW	1.5 kW	1.5 kW	10A
Steam	230-240V 3AC 50/60 Hz	-	1.5 kW	1.5 kW	10A
	230-240V 1AC 50/60Hz	-	1.5 kW	1.5 kW	10A
	400-415V 3AC 50/60Hz	-	1.5 kW	1.5 kW	10A
	440-480V 3AC 60Hz	-	1.5 kW	1.5 kW	10A
Electric	230-240V 3AC 50/60Hz	24 kW	1.5 kW	25.5 kW	80A
	400-415V 3AC 50/60Hz	24 kW	1.5 kW	25.5 kW	50A
	440-480V 3AC 60Hz	24 kW	1.5 kW	25.5 kW	50A
	230-240V 3AC 50/60Hz	30 kW	1.5 kW	31.5 kW	100A
	400-415V 3AC 50/60Hz	30 kW	1.5 kW	31.5 kW	50A
	440-480V 3AC 60Hz	30 kW	1.5 kW	31.5 kW	50A

Electric installation - T4650

Fuse sizes, effects and voltages

	Voltage	Heat effect kW	Motor effect kW	Max. effect kW	Fuse
Gas	230-240V 3AC 50/60 Hz	57 kW	2 kW	2 kW	10A
	400-415V 3AC 50/60Hz	57 kW	2 kW	2 kW	10A
	440-480V 3AC 60HZ	57 kW	2 kW	2 kW	10A
Steam	230-240V 3AC 50/60 Hz	-	2 kW	2 kW	10A
	400-415V 3AC 50/60HZ	-	2 kW	2 kW	10A
	440-480V 3AC 60Hz	-	2 kW	2 kW	10A
Electric	230-240V 3AC 50/60Hz	30 kW	2 kW	32 kW	100A
	400-415V 3AC 50/60Hz	30 kW	2 kW	32 kW	50A
	440-480V 3AC 60Hz	30 kW	2 kW	32 kW	50A
	230-240V 3AC 50/60Hz	36 kW	2 kW	38 kW	100A
	400-415V 3AC 50/60Hz	36 kW	2 kW	38 kW	63A
	440-480V 3AC 60Hz	36 kW	2 kW	38 kW	63A

To be carried out by qualified personnel

Function check

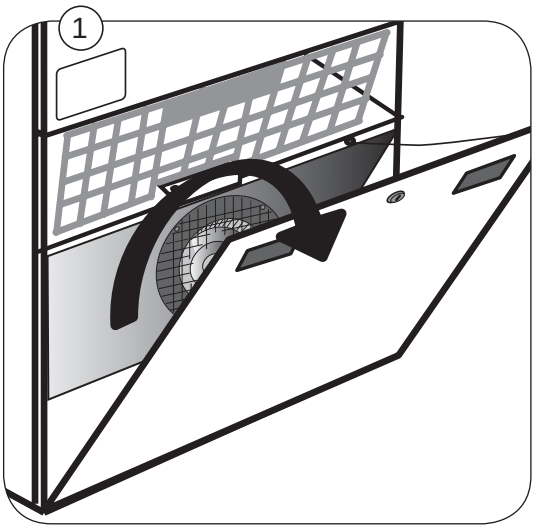
Check whether the drum is empty and the door has been closed.

Start the dryer

Check if the micro switches are working properly:

The dryer must stop if the loading door is opened.

The dryer must stop if the filter door is opened.



Correct direction of rotation

Fig. 1 Correct direction of rotation on fan wheel: **clockwise.**

For dryers with a 3-phase motor the direction of rotation must be checked.

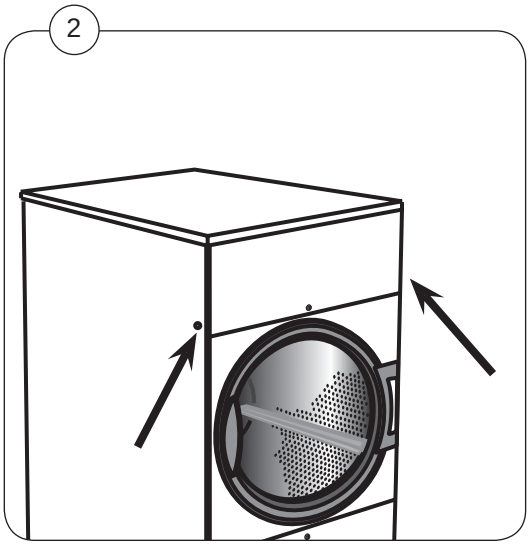
If the direction of rotation is not correct, swop two phases on the connection terminal.

Final test

Let the dryer work for 5 minutes on a program that requires heat.

Then check whether the heating is working by opening the front door and feel the heat.

If the above tests-points are in order, the dryer is ready for use.



Safety screws

Fig. 2 Remember to fit the screws on the sides of the front panel.

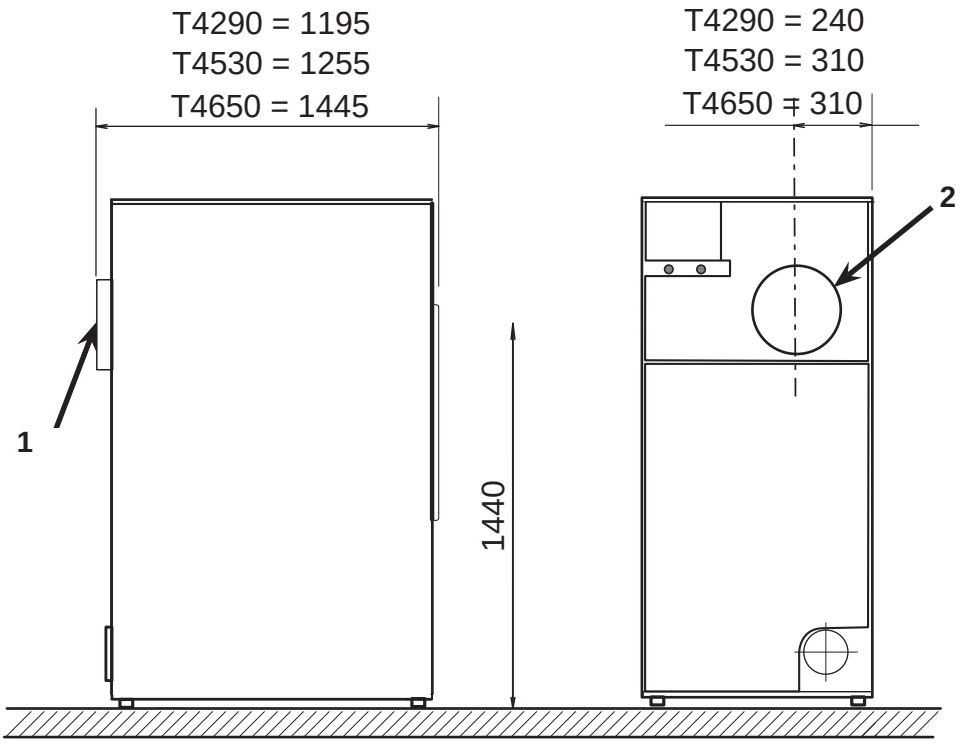
Service organisation/dealer

If deficiencies or errors are detected, please contact your local service organisation / dealer.

Option: Adaptor for direct fresh-air intake - dimension sketch

Gas- and electric heated dryers

1	**Adaptor:**	T4290	no. 988 80 20 41
		T4530, T4650	no. 988 80 20 42
2	**Diameter:**	T4290	Ø 315
		T4530, T4650	Ø 400



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